DLBS-4
LITHOLOGIC WELL LOG PRINTOUT SOURCE - FGS

WELL NUMBER: W-17789 COUNTY - DADE
TOTAL DEPTH: 103 FT. LOCATION: T.52S R.39E S.25 CC
16 SAMPLES FROM 0 TO 103 FT. LAT = 25D 53M 31S
LON = 80D 24M 15S
COMPLETION DATE: 06/06/96 ELEVATION: 5 FT
OTHER TYPES OF LOGS AVAILABLE - NONE

OWNER/DRILLER:OWNER UNKNOWN/DRILLER: SFWMD- WELL NAME DLBS-4, ID# 025-15

WORKED BY:HOLLY K. WILLIAMS, FLORIDA GEOLOGICAL SURVEY
SAMPLES ARE CORE

0. - 87. 121PCPC PLIOCENE-PLEISTOCENE
87. - . 122HTRN HAWTHORN GROUP
87. - . 122PCRV PEACE RIVER FM.

0 - 3 WACKESTONE; LIGHT GRAY TO BROWNISH GRAY
10% POROSITY: INTRAGRANULAR, INTERGRANULAR, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: SPAR-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS
ALSO PRESENT IN INTERVAL, QUARTZ SAND, FINE TO VERY COARSE
MODE: MEDIUM-20% (SURROUNDING GROUND UP PIECES OF
LIMESTONE), ORGANICS-15%, MUD AND CLAY-20% (0-1'), MUD AND
CLAY-10% (1-3'). LIMESTONE CONTAINS MOLLUSKS REPLACED WITH
SPARRY CALCITE.

3 - 7.3 CALCILUTITE; DARK YELLOWISH BROWN
POROSITY: INTRAGRANULAR, INTERGRANULAR
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: LIMESTONE-30%, QUARTZ SAND-20%
CLAY-15%
LIMESTONE IN THE MUD IS AS ABOVE. SAND, ALSO PRESENT IN THE
MUD, IS FINE TO VERY COARSE, MODE: MEDIUM.

7.3- 7.6 WACKESTONE; YELLOWISH GRAY
10% POROSITY: INTRAGRANULAR, INTERGRANULAR, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: CRYPTOCRYSTALLINE TO MEDIUM; GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: SPAR-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
LIMESTONE CONTAINS MOLLUSKS REPLACED WITH SPARRY CALCITE.

7.6- 8 CALCILUTITE; YELLOWISH GRAY TO VERY LIGHT GRAY
POROSITY: INTRAGRANULAR, INTERGRANULAR
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: QUARTZ SAND-15%, CLAY-10%
SAND IN MUD IS FINE TO VERY COARSE, MODE: MEDIUM.

8 - 9 WACKESTONE; YELLOWISH GRAY
POROSITY: INTRAGRANULAR, MOLDIC, VUGULAR
GRAIN TYPE: BIOGENIC, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: CRYPTOCRYSTALLINE TO MEDIUM; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-15%, SPAR-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS
MOLLUSKS ARE REPLACED WITH SPARRY CALCITE. MOLDS AND VOID SPACES ARE FILLED IN OR PARTIALLY FILLED WITH SPARRY CALCITE. ~5% OF THE ROCK EXHIBITS SOLUTION FEATURES (VOIDS) 1-2CM DIAMETER.

9 - 12 MUDSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
25% POROSITY: INTRAGRANULAR, MOLDIC, VUGULAR
GRAIN TYPE: BIOGENIC, CRYSTALS, OOLITE
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: CRYPTOCRYSTALLINE TO MEDIUM; GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT
OTHER FEATURES: HIGH RECRYSTALLIZATION
FOSSILS: FOSSIL MOLDS
OOMOLDIC POROSITY, SOME VERY VUGGY/MOLDIC ZONES TREND AT A SHALLOW TO MODERATE ANGLE FROM HORIZONTAL.

12 - 13 PACKSTONE; YELLOWISH GRAY
20% POROSITY: INTRAGRANULAR, MOLDIC, VUGULAR
GRAIN TYPE: OOLITE, BIOGENIC, CRYSTALS
75% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: CRYPTOCRYSTALLINE TO COARSE
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND-05%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: FOSSIL MOLDS
SOME OOMOLDIC POROSITY, MODERATE TO POOR INDURATION.

13 - 14 WACKESTONE; YELLOWISH GRAY
POROSITY: INTRAGRANULAR, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE, OOLITE
35% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: CRYPTOCRYSTALLINE TO COARSE; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: MOLLUSKS, FOSSIL MOLDS
POROSITY-10-15%.

14 - 16 PACKSTONE; YELLOWISH GRAY
15% POROSITY: INTRAGRANULAR, INTERGRANULAR
GRAIN TYPE: BIOGENIC, CALCILUTITE, OOLITE
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: CRYPTOCRYSTALLINE TO COARSE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
HIGH PERCENTAGE OF THE LIMESTONE IS RECRYSTALLIZED. SOME PIECES OF THE LIMESTONE HAVE A SOMEWHAT FLAT SURFACE COVERED WITH SPARRY CALCITE EITHER FORMED ON THE SURFACE OF THE LIMESTONE OR WITHIN NEAR-SURFACE VOIDS AND SOLUTION HOLES.

16 - 18 WACKESTONE; YELLOWISH GRAY
20% POROSITY: INTRAGRANULAR, VUGULAR, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE, OOLITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: CRYPTOCRYSTALLINE TO COARSE; GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: MOLLUSKS, FOSSIL MOLDS
LARGE SHELL CASTS AND VOID SPACES COATED WITH SPARRY CALCITE.

18 - 20 WACKESTONE; YELLOWISH GRAY
10% POROSITY: INTRAGRANULAR, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: CRYPTOCRYSTALLINE TO COARSE; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-15%
FOSSILS: MOLLUSKS, FOSSIL MOLDS
SOME CASTS SHOW SOME SPARRY CALCITE REPLACEMENT, QUARTZ SAND ACCESSORY IS FINE GRAIN.

20 - 30 WACKESTONE; YELLOWISH GRAY
10% POROSITY: INTRAGRANULAR, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: MOLLUSKS, FOSSIL MOLDS
SOME CASTS SHOW SOME SPARRY CALCITE REPLACEMENT, SPARRY CALCITE REPLACING MOLDS. NUMEROUS MOLLUSK MOLDS. AT 22-30', YELLOWISH GRAY WACKESTONE IS MOTTLED WITH GRAY MUDSTONE (20% OF ROCK).

30 - 35 MUDSTONE; YELLOWISH GRAY
POROSITY: INTRAGRANULAR
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: CRYPTOCRYSTALLINE; GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-15%

ALSO PRESENT IN INTERVAL (CORE IS GROUND UP IN THIS INTERVAL), GRAINSTONE (10% OF INTERVAL)-FINE TO MEDIUM GRAINS-95% ALLOCHEMICAL CONSTITUENT.

35 - 45 WACKESTONE; YELLOWISH GRAY
10% POROSITY: INTRAGRANULAR
GRAIN TYPE: CALCILUTITE, BIOGENIC, PELLET
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: CRYPTOCRYSTALLINE TO MEDIUM; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: MOLLUSKS, FOSSIL MOLDS

45 - 50 MUDSTONE; YELLOWISH GRAY
POROSITY: INTRAGRANULAR
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: CRYPTOCRYSTALLINE; GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: SPAR-05%, QUARTZ SAND-10%
FOSSILS: MOLLUSKS, FOSSIL MOLDS
SOME MOLDS INFILLED WITH SPARRY CALCITE. SAND ACCESSORY IS FINE GRAIN.

50 - 60 MUDSTONE; YELLOWISH GRAY
POROSITY: INTRAGRANULAR
GRAIN TYPE: CALCILUTITE, BIOGENIC
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: CRYPTOCRYSTALLINE TO MEDIUM; GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-30%, SPAR-05%
FOSSILS: MOLLUSKS, FOSSIL MOLDS
SPARRY CALCITE INFILLS SOME MOLDS. SAND ACCESSORY IS FINE GRAIN.

60 - 65 MUDSTONE; YELLOWISH GRAY
POROSITY: INTRAGRANULAR, INTERGRANULAR
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: CRYPTOCRYSTALLINE; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-45%
SAND ACCESSORY IS FINE TO COARSE GRAIN, MODE: MEDIUM.

65 - 80 MUDSTONE; YELLOWISH GRAY
POROSITY: INTRAGRANULAR, INTERGRANULAR
GRAIN TYPE: BIOGENIC, CALCILUTITE
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: CRYPTOCRYSTALLINE TO MEDIUM; GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-25%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, FOSSIL MOLDS
SAND ACCESSORY IS FINE GRAIN.

80 - 87 MUDSTONE; YELLOWISH GRAY
POROSITY: INTRAGRANULAR, INTERGRANULAR
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: CRYPTOCRYSTALLINE; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-15%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, FOSSIL MOLDS
SAND ACCESSORY IS FINE TO VERY COARSE, MODE: MEDIUM.
APPROXIMATELY 10% OF QUARTZ SAND IS LIGHT ORANGE/BROWN
90% IS COLORLESS.

87 - 103 SAND; VERY LIGHT GRAY
25% POROSITY: INTERGRANULAR, POSSIBLY HIGH PERMEABILITY
GRAIN SIZE: MEDIUM; RANGE: VERY FINE TO VERY COARSE
ROUNDNESS: SUB-ANGULAR TO SUB-ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: CLAY-<5%
ALSO PRESENT IN QUARTZ SAND: PHOSPHATIC SAND, FINE GRAIN-5%, AND LIMESTONE AND SHELL HAST-10%.

103 TOTAL DEPTH